

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: LUMARK

Report Number: P971007

Luminaire Tested: **NAV-SB6C-827-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971007
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6C-827-U-SL3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39560.9 lumens
Efficiency: N/A
Efficacy: 131.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

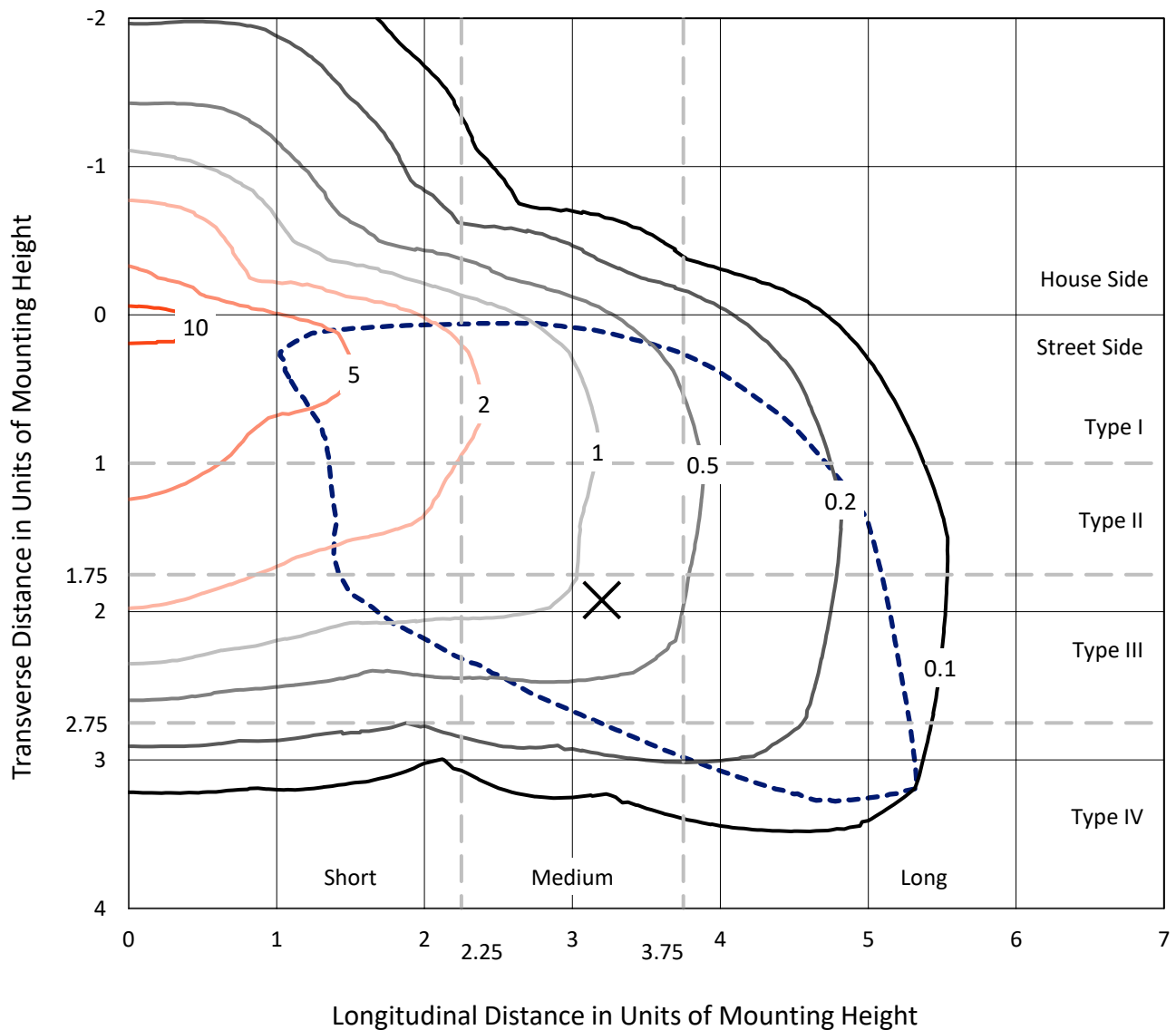


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

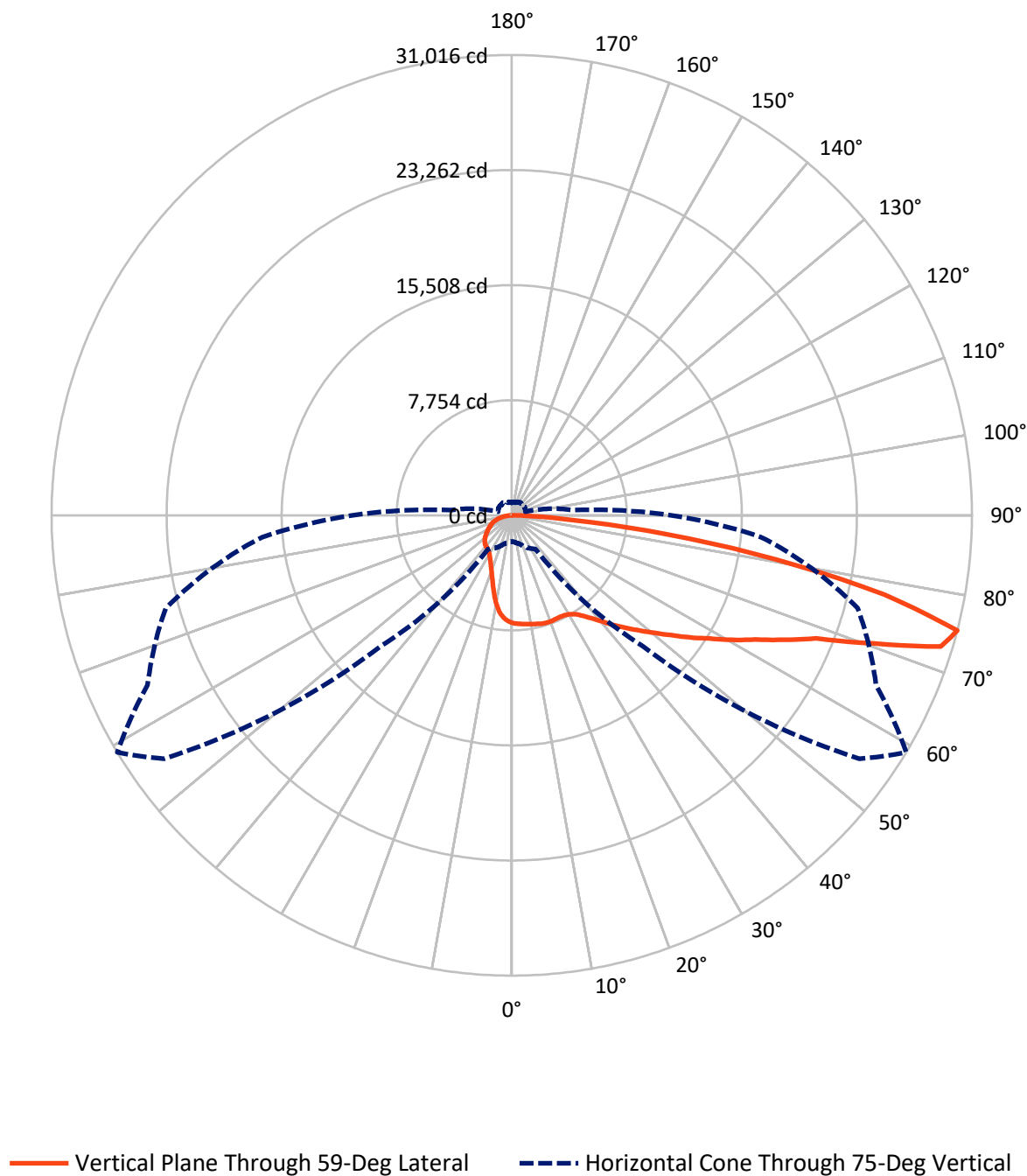


Based on 25 foot mounting height. Maximum calculated value = 11.6 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7419.9	0.0	7419.9
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	32141.0	0.0	32141.0
	% Fixture	81.2	0.0	81.2
Total	Lumens	39560.9	0.0	39560.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	651.1	1.6
10°-20°	1664.2	4.2
20°-30°	2527.8	6.4
30°-40°	3757.6	9.5
40°-50°	5588.2	14.1
50°-60°	7585.3	19.2
60°-70°	9260.4	23.4
70°-80°	7267.4	18.4
80°-90°	1258.9	3.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	39560.9	100.0
0°-180°	39560.9	100.0

Coefficient of Utilization



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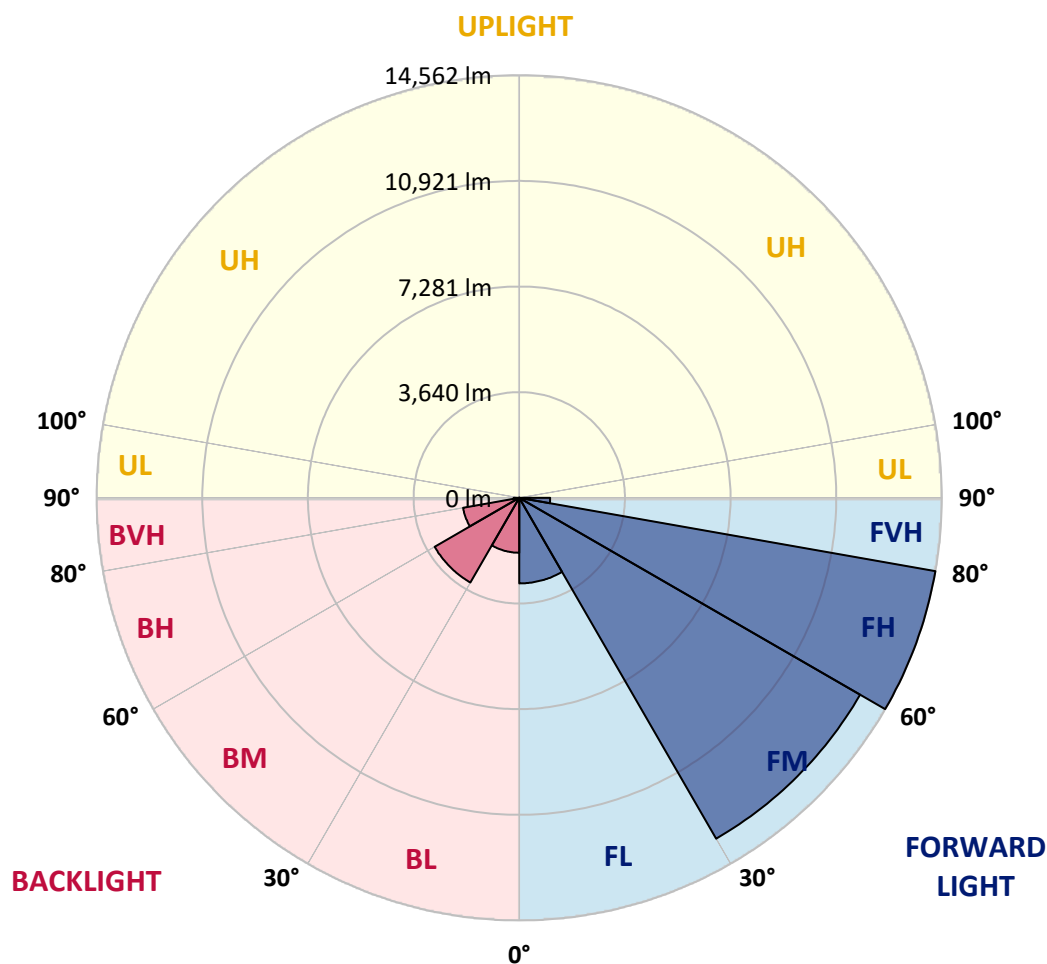
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2949.7	7.5			
FM	(30°-60°)	13563.1	34.3			
FH	(60°-80°)	14562.0	36.8			G5
FVH	(80°-90°)	1066.2	2.7			G5
BL	(0°-30°)	1893.5	4.8	B3/2500		
BM	(30°-60°)	3367.9	8.5	B3/5000		
BH	(60°-80°)	1965.8	5.0	B3/2500		G3/2500
BVH	(80°-90°)	192.7	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	7261.3	7261.3	7261.3	7261.3	7261.3	7261.3	7261.3	7261.3	7261.3	7261.3	7261.3
2.5°	7323.0	7297.5	7323.0	7312.4	7308.1	7299.6	7301.8	7316.7	7308.1	7318.8	7282.6
5°	7274.1	7259.2	7284.7	7278.3	7306.0	7310.3	7338.0	7355.0	7365.5	7367.7	7340.0
7.5°	7193.2	7178.3	7214.5	7244.3	7303.8	7320.9	7378.4	7406.0	7420.9	7446.4	7406.0
10°	6897.4	6891.0	6980.4	7093.2	7233.6	7320.9	7408.2	7454.9	7478.4	7546.5	7499.7
12.5°	6373.9	6382.4	6499.4	6716.5	6997.5	7278.3	7442.2	7510.3	7546.5	7631.6	7610.3
15°	5873.8	5871.6	5999.3	6231.3	6625.0	7091.1	7459.2	7576.3	7638.0	7763.6	7746.5
17.5°	5584.3	5575.8	5665.2	5841.8	6207.9	6803.7	7416.7	7612.5	7744.4	7901.9	7887.0
20°	5531.1	5514.1	5560.9	5648.2	5907.8	6488.8	7306.0	7612.5	7829.6	8033.8	8025.3
22.5°	5724.7	5697.2	5678.0	5667.3	5782.2	6229.1	7180.4	7586.9	7955.1	8223.3	8208.3
25°	6114.2	6071.7	5973.8	5878.0	5843.9	6112.1	7069.7	7580.5	8142.4	8478.6	8423.2
27.5°	6744.2	6691.0	6493.1	6263.2	6056.7	6171.7	7020.8	7618.8	8348.8	8748.9	8638.3
30°	7525.2	7467.7	7218.8	6865.4	6495.2	6393.0	7082.5	7731.7	8612.7	9108.6	8891.5
32.5°	8225.4	8161.6	7948.7	7589.1	7088.9	6776.1	7278.3	7946.6	9027.7	9608.7	9272.5
35°	8846.8	8772.4	8580.8	8248.8	7816.8	7314.5	7631.6	8327.5	9617.2	10421.7	9789.6
37.5°	9455.4	9368.2	9159.6	8808.5	8506.3	8031.7	8118.9	8817.0	10400.4	11409.1	10474.9
40°	10136.4	10010.9	9757.7	9410.7	9117.1	8872.3	8759.5	9417.2	11196.3	12511.6	11330.3
42.5°	10796.2	10677.0	10374.8	10079.0	9710.8	9640.6	9502.3	10119.4	12066.7	13722.4	12198.6
45°	11507.1	11364.4	10998.4	10623.8	10391.9	10151.4	10221.6	10821.7	12920.1	14956.8	13109.5
47.5°	12173.1	12013.5	11581.5	11164.4	11036.7	10581.3	10881.3	11594.3	13807.6	16208.1	14011.9
50°	12532.8	12375.3	12015.7	11639.0	11538.9	11111.2	11596.4	12443.4	14737.6	17455.2	14878.1
52.5°	12832.9	12662.6	12192.3	11983.7	11954.0	11687.9	12477.4	13413.9	15667.5	18557.6	15714.4
55°	13152.1	12962.7	12362.5	12175.3	12311.5	12334.8	13522.4	14514.1	16650.8	19632.3	16503.9
57.5°	13520.3	13279.8	12526.4	12337.0	12660.5	13092.5	14722.7	15654.8	17617.0	20628.3	17206.3
60°	13867.1	13624.5	12841.4	12594.5	13037.2	13971.5	16099.6	17036.0	18710.9	21515.8	17870.3
62.5°	13935.3	13735.2	13092.5	13090.4	13547.9	14997.2	17729.7	18429.9	19666.4	22392.6	18466.1
65°	12756.2	12630.7	12249.8	13071.2	14280.0	16474.2	19545.1	20213.3	20881.6	23158.7	18989.7
67.5°	9708.7	9725.7	9698.0	11283.5	13688.4	18596.0	22173.4	22122.4	22382.0	24018.5	19592.0
70°	4439.4	4539.4	5190.6	7789.1	10966.5	18840.7	26519.1	25857.3	24265.4	25131.6	20113.4
72.5°	2398.4	2475.1	2741.1	3773.2	6593.1	16750.9	29766.7	30237.0	26770.2	25880.6	19540.8
75°	1760.0	1802.6	1987.7	2398.4	2768.7	12449.8	28602.6	31016.0	27083.1	24133.4	16874.3
77.5°	1317.3	1336.5	1487.6	1900.5	1417.4	6563.3	22854.4	25687.0	23184.3	19828.1	12464.7
80°	955.5	976.8	1089.6	1425.9	993.8	2400.5	15693.2	18029.9	15878.3	12639.2	6212.1
82.5°	659.7	668.2	717.2	970.5	693.8	932.1	8904.3	10572.8	8863.8	4435.1	1677.0
85°	398.0	408.6	429.9	566.1	393.7	442.7	3843.4	3975.5	2649.5	1059.8	521.4
87.5°	163.9	174.6	191.6	238.3	155.4	123.4	634.2	795.9	495.9	310.7	161.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7261.3	7261.3	7261.3	7261.3	7261.3	7261.3	7261.3	7261.3	7261.3	7261.3	7261.3
2.5°	7272.0	7257.1	7216.6	7161.3	7110.2	7046.4	7018.7	6995.3	6974.0	6933.6	6914.4
5°	7316.7	7276.2	7167.7	7027.2	6867.6	6693.0	6522.8	6405.8	6305.8	6231.3	6169.6
7.5°	7384.7	7308.1	7110.2	6822.9	6456.9	6082.3	5743.9	5503.4	5322.5	5256.6	5141.7
10°	7454.9	7363.5	7018.7	6512.2	5880.1	5303.3	4854.4	4607.5	4462.7	4415.9	4343.6
12.5°	7538.0	7403.9	6876.1	6080.2	5235.3	4603.3	4211.6	4066.9	3992.5	3967.0	3973.3
15°	7659.3	7437.9	6661.2	5539.6	4620.3	4092.5	3839.2	3739.2	3700.9	3698.7	3707.3
17.5°	7750.8	7444.4	6327.0	4960.8	4147.8	3783.9	3575.3	3537.0	3562.6	3600.8	3615.8
20°	7852.9	7386.9	5888.6	4433.0	3815.8	3513.6	3426.4	3451.9	3513.6	3568.9	3588.1
22.5°	7925.3	7282.6	5358.7	4022.2	3528.5	3358.2	3354.0	3407.2	3441.2	3468.9	3483.8
25°	7989.2	7105.9	4796.9	3677.5	3292.3	3264.6	3311.5	3294.5	3271.0	3294.5	3309.3
27.5°	8036.0	6827.2	4294.6	3375.3	3126.2	3200.8	3173.1	3134.8	3132.7	3145.4	3166.7
30°	8021.0	6454.7	3881.8	3088.0	3009.2	3081.6	3015.7	3009.2	3002.8	3009.2	3032.7
32.5°	8021.0	6031.2	3564.6	2890.1	2934.8	2907.1	2900.6	2885.8	2860.3	2858.1	2885.8
35°	8065.7	5607.8	3292.3	2783.7	2873.1	2807.1	2811.3	2775.1	2721.9	2696.4	2721.9
37.5°	8157.3	5267.3	3022.0	2732.5	2764.5	2762.4	2745.4	2683.7	2590.0	2509.1	2536.8
40°	8378.6	5167.2	2836.9	2709.2	2713.4	2739.0	2694.2	2575.1	2362.3	2230.3	2247.3
42.5°	8725.5	5335.3	2796.4	2651.7	2679.4	2704.9	2617.6	2341.0	2189.9	2111.2	2111.2
45°	9166.1	5629.0	2883.6	2568.6	2598.5	2643.2	2383.5	2251.6	2183.5	2185.6	2196.3
47.5°	9723.6	5937.6	3045.4	2496.4	2481.4	2506.9	2228.1	2147.3	2053.7	2077.1	2136.7
50°	10368.5	6250.4	3198.6	2398.4	2351.7	2268.6	2128.2	2051.5	1932.3	1877.1	1891.9
52.5°	11066.5	6552.6	3260.3	2279.3	2211.1	2115.4	2060.0	1966.5	1821.7	1730.2	1728.0
55°	11728.4	6827.2	3192.3	2136.7	2070.7	1996.2	1987.7	1930.3	1774.9	1647.2	1647.2
57.5°	12354.0	7057.0	3022.0	1992.0	1928.1	1883.4	1940.9	1913.3	1717.4	1553.6	1545.1
60°	12883.9	7214.5	2775.1	1845.1	1800.4	1777.0	1864.3	1855.8	1636.5	1453.6	1447.2
62.5°	13305.3	7276.2	2502.7	1704.7	1694.0	1651.5	1757.9	1757.9	1534.4	1355.7	1349.3
65°	13635.2	7216.6	2226.1	1566.3	1587.6	1523.8	1628.0	1615.3	1425.9	1268.4	1259.8
67.5°	13926.8	7020.8	1919.6	1430.1	1479.1	1398.2	1491.9	1462.1	1306.7	1181.1	1172.6
70°	14056.5	6565.4	1570.6	1294.0	1353.5	1274.8	1355.7	1300.3	1172.6	1087.5	1070.5
72.5°	13013.7	5456.6	1236.5	1151.4	1202.4	1138.6	1208.8	1144.9	1027.9	989.6	957.7
75°	10766.4	4094.6	951.3	996.0	1034.3	985.3	1032.2	985.3	878.9	906.6	827.9
77.5°	7818.9	2764.5	727.9	832.1	849.1	823.6	864.1	810.9	715.0	708.7	676.8
80°	3888.1	1619.5	570.3	657.6	651.2	634.2	681.0	655.5	574.6	608.6	602.3
82.5°	1125.8	693.8	415.0	461.8	449.1	453.3	487.4	500.1	749.1	742.7	759.7
85°	353.3	272.4	249.0	257.5	244.8	251.1	287.3	570.3	527.8	308.6	334.2
87.5°	91.5	93.7	61.7	66.0	68.1	80.9	91.5	346.9	165.9	108.5	114.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)